

FIG. 1

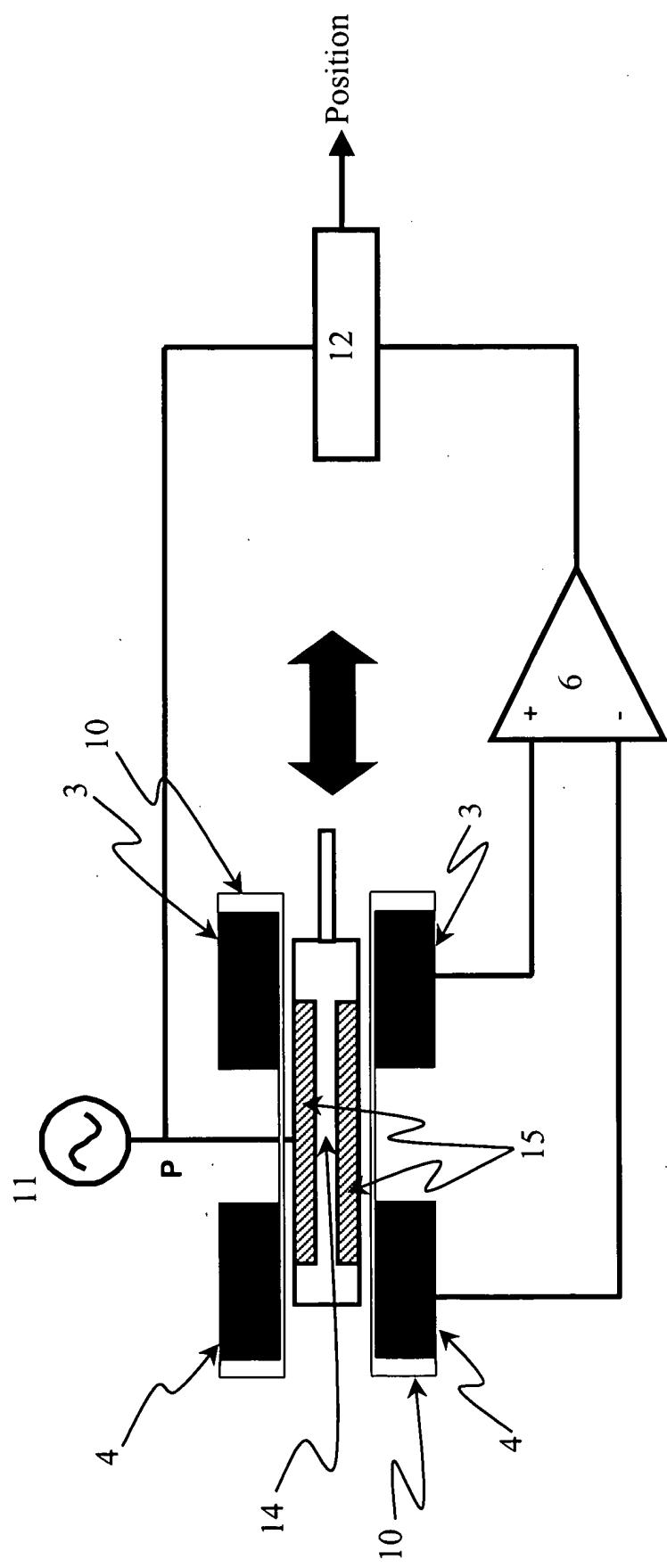


FIG.2

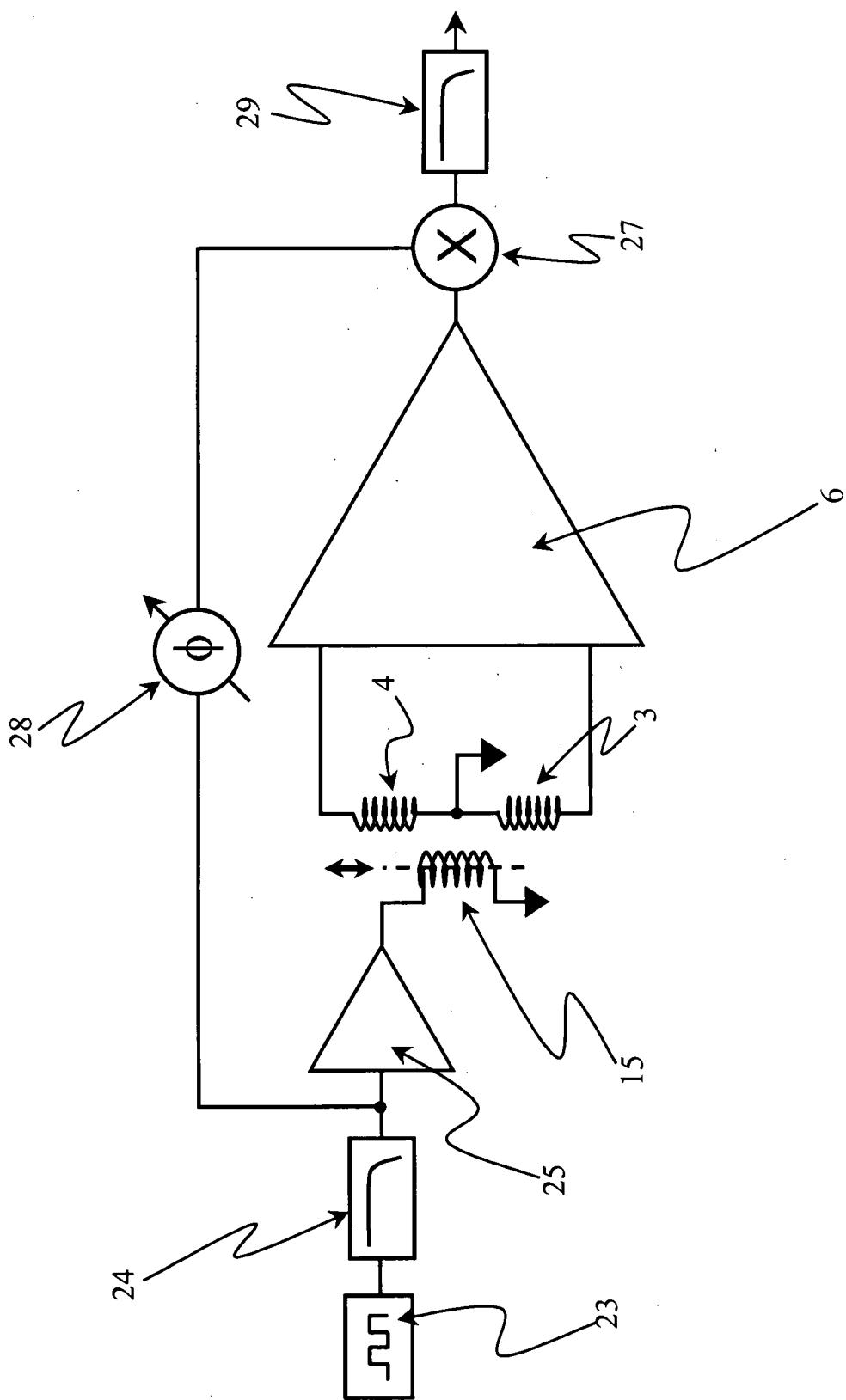


FIG.3

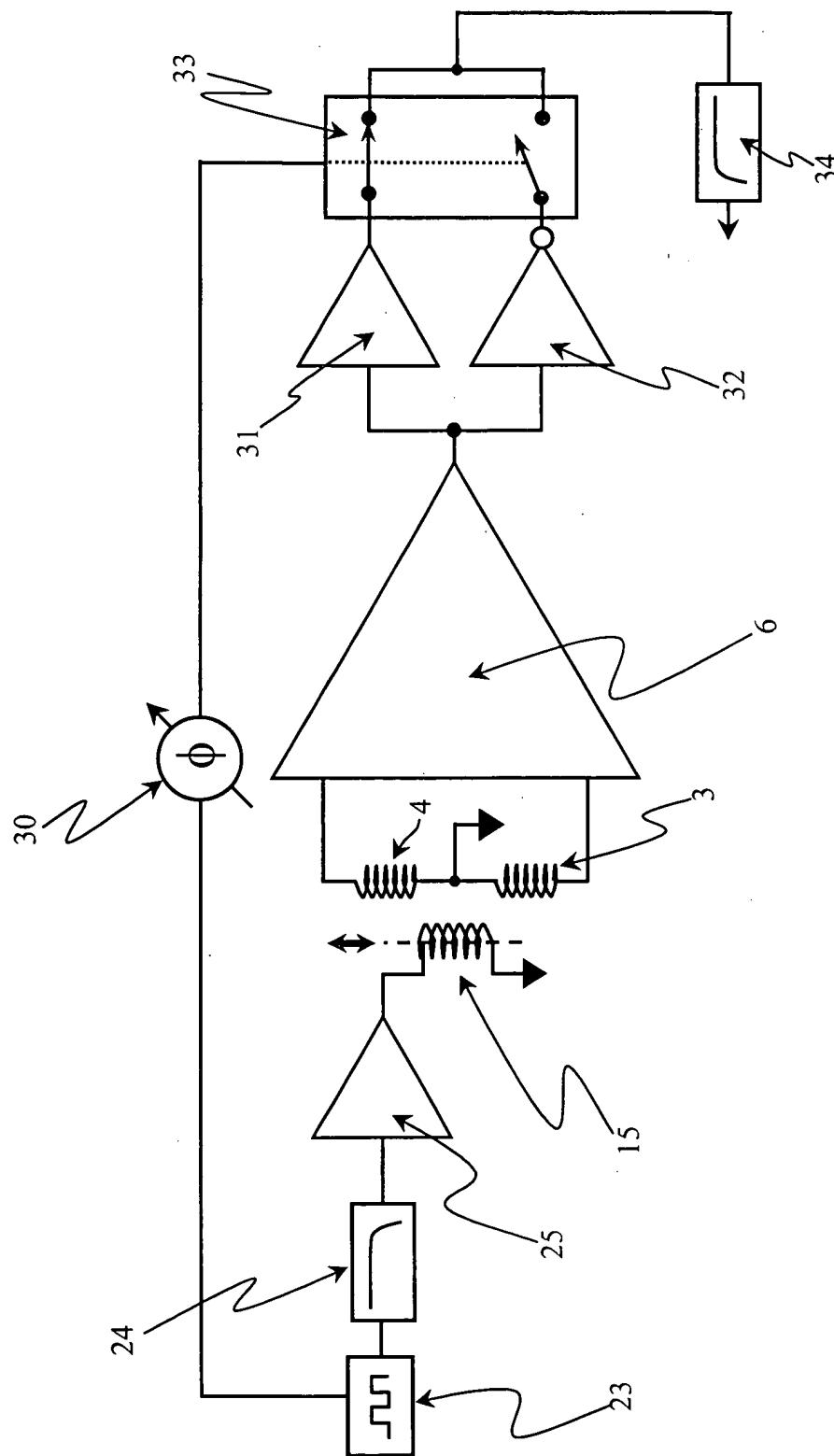


FIG. 4

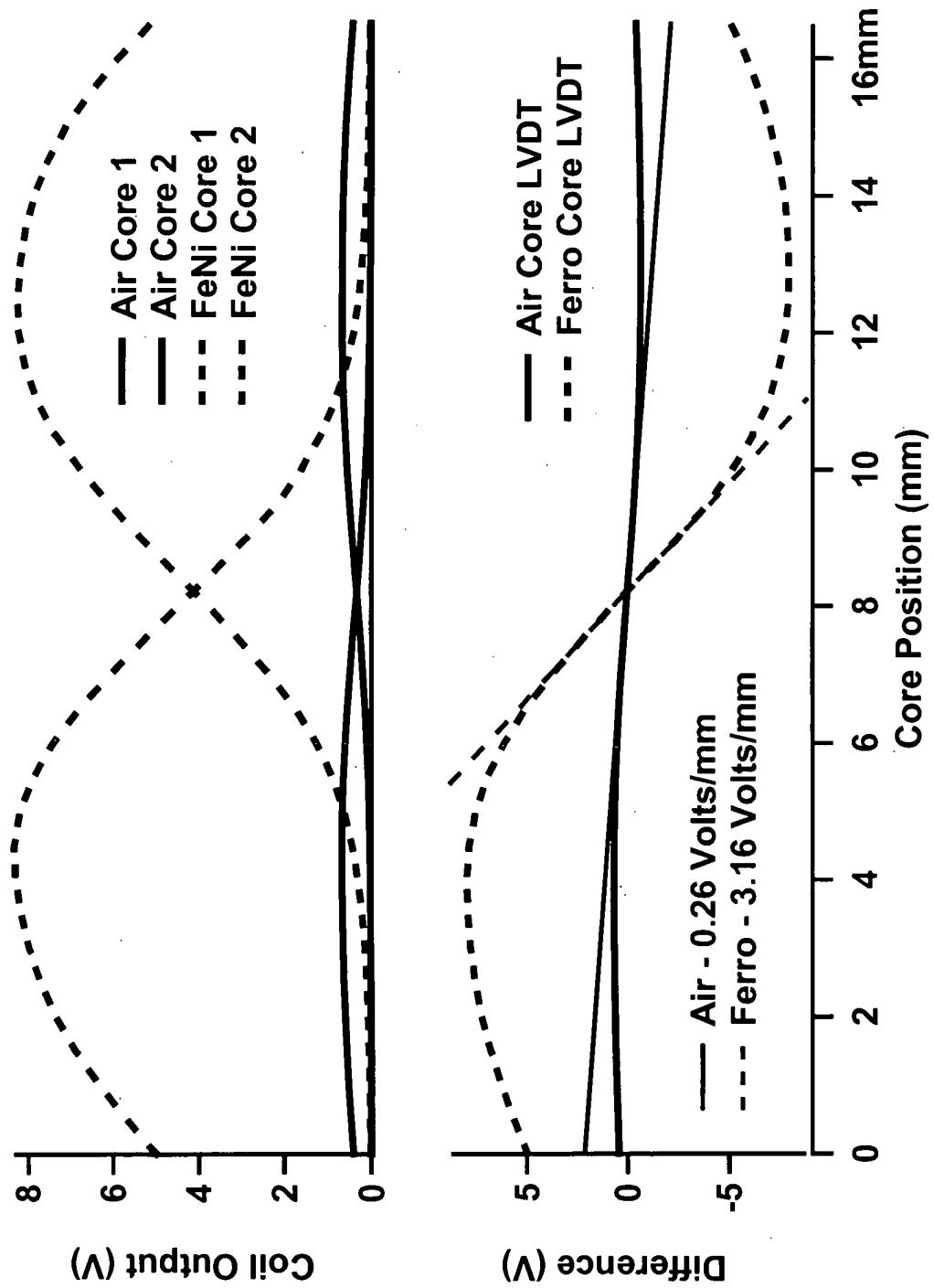


FIG. 5

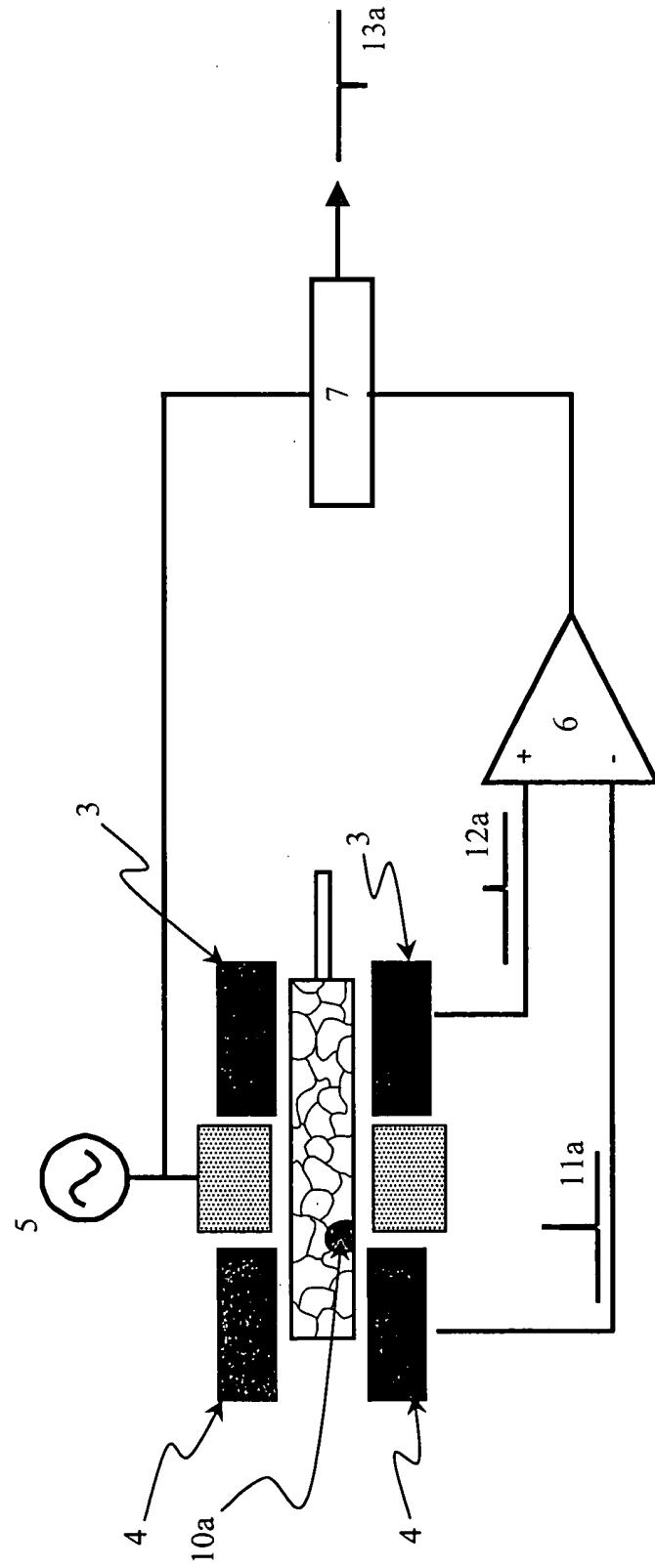


FIG. 6

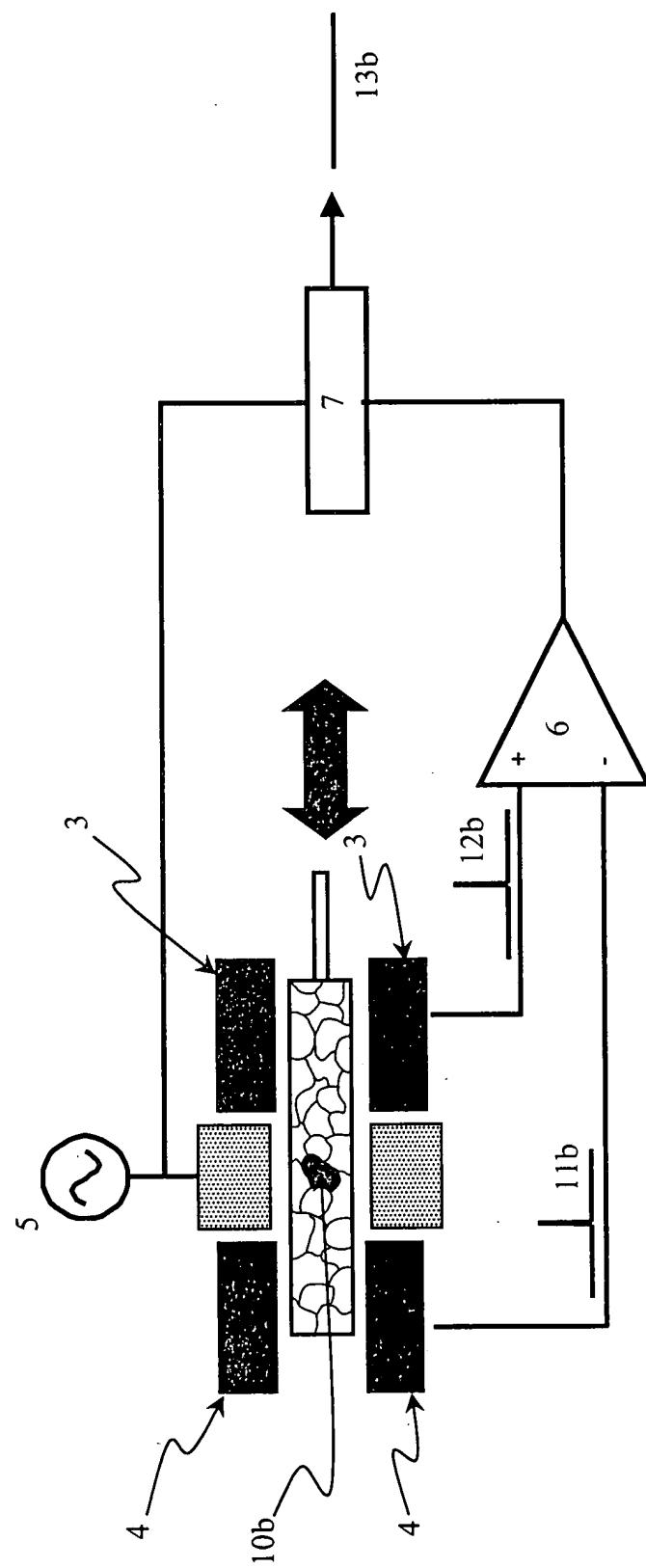


FIG. 7

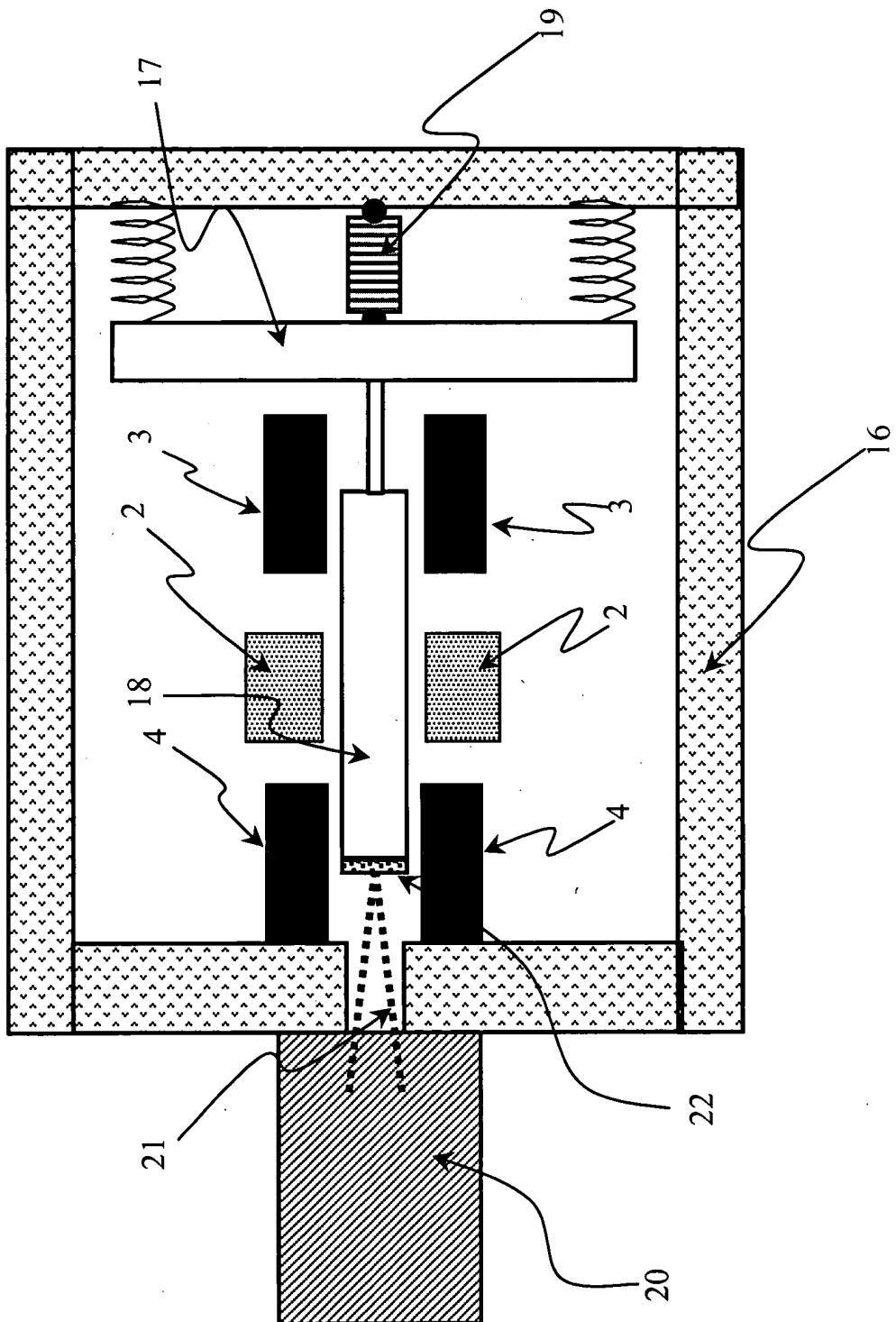


FIG. 8

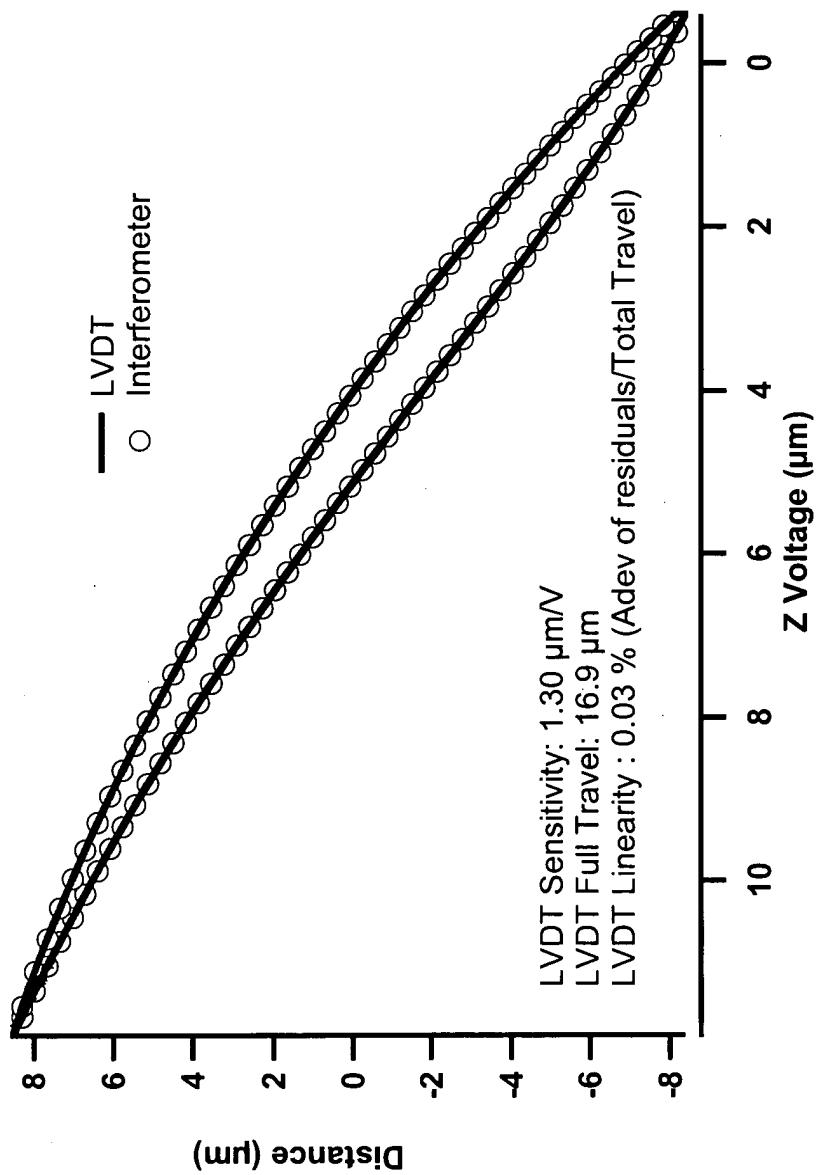


FIG. 9

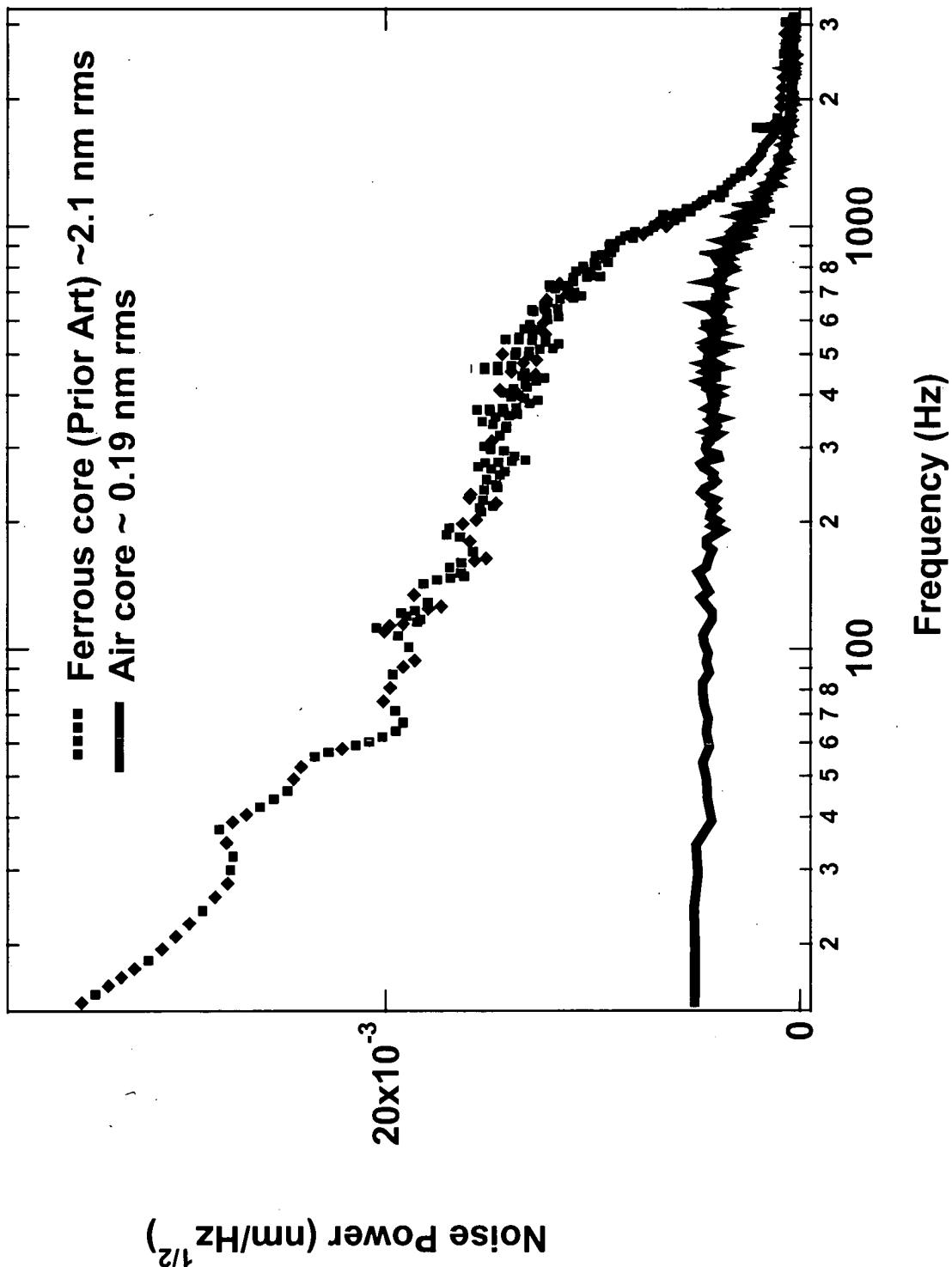


FIG.10

Noise vs. Time for ferromagnetic and non-ferromagnetic cores

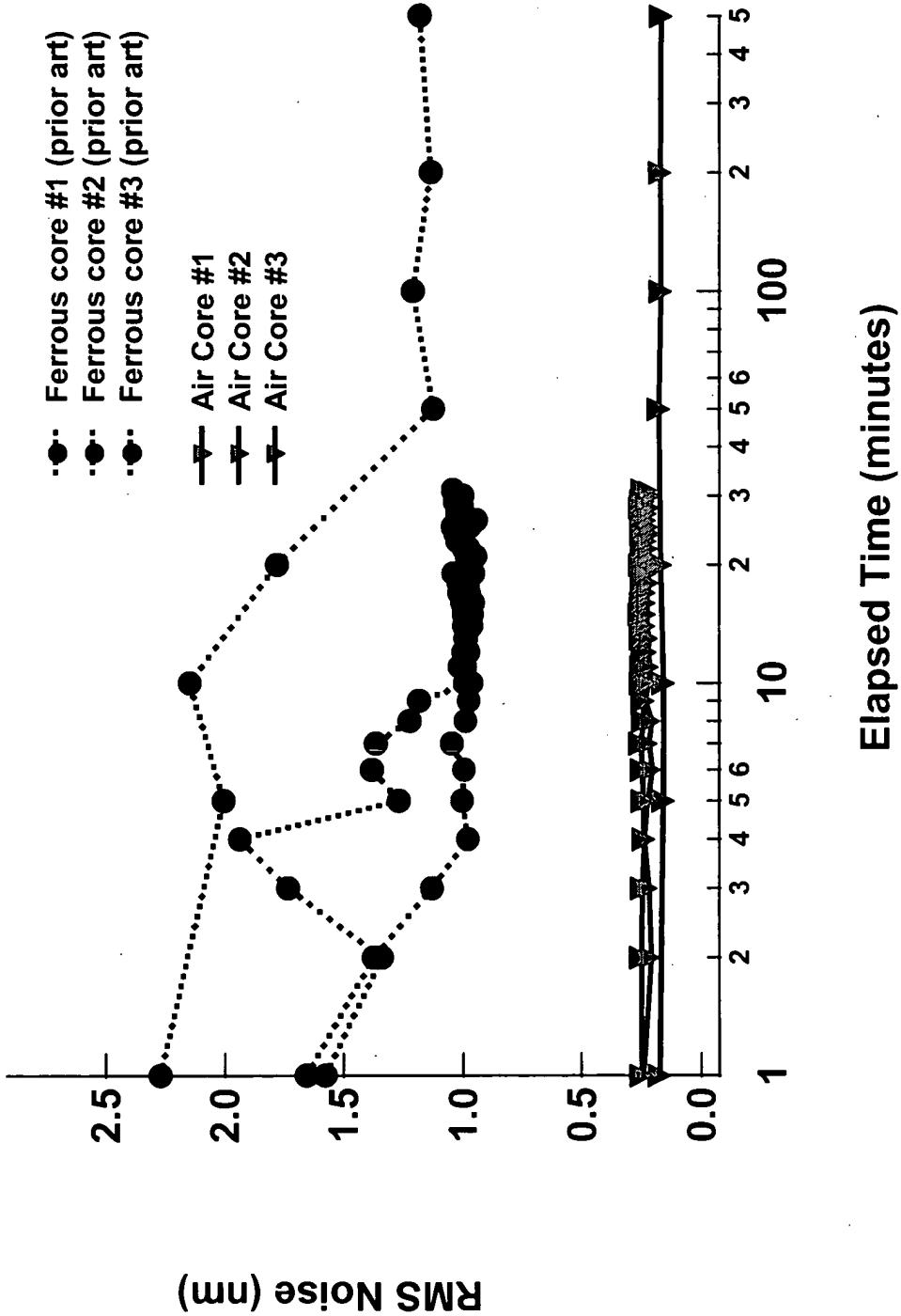
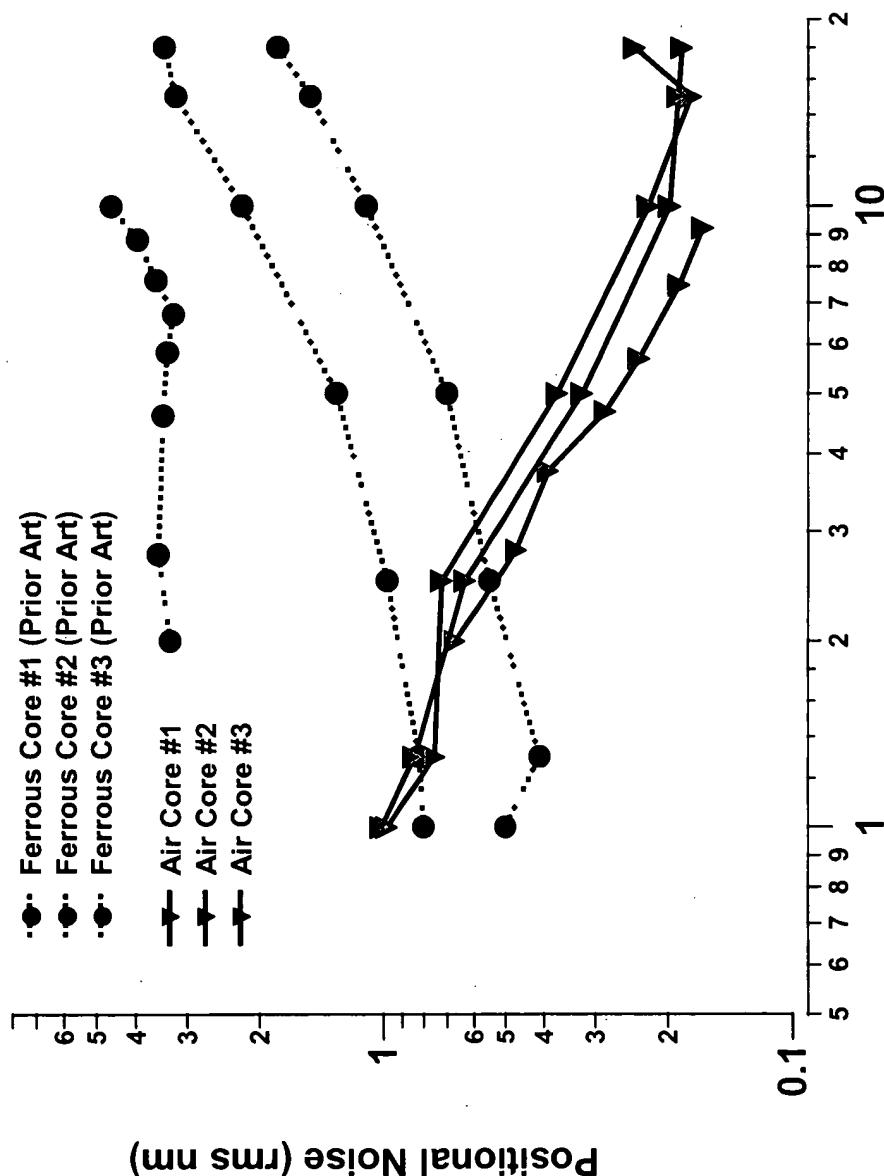


FIG.11

Positional Noise vs. Primary Coil Drive Amplitude



Drive Amplitude (rms Volts)

FIG. 12

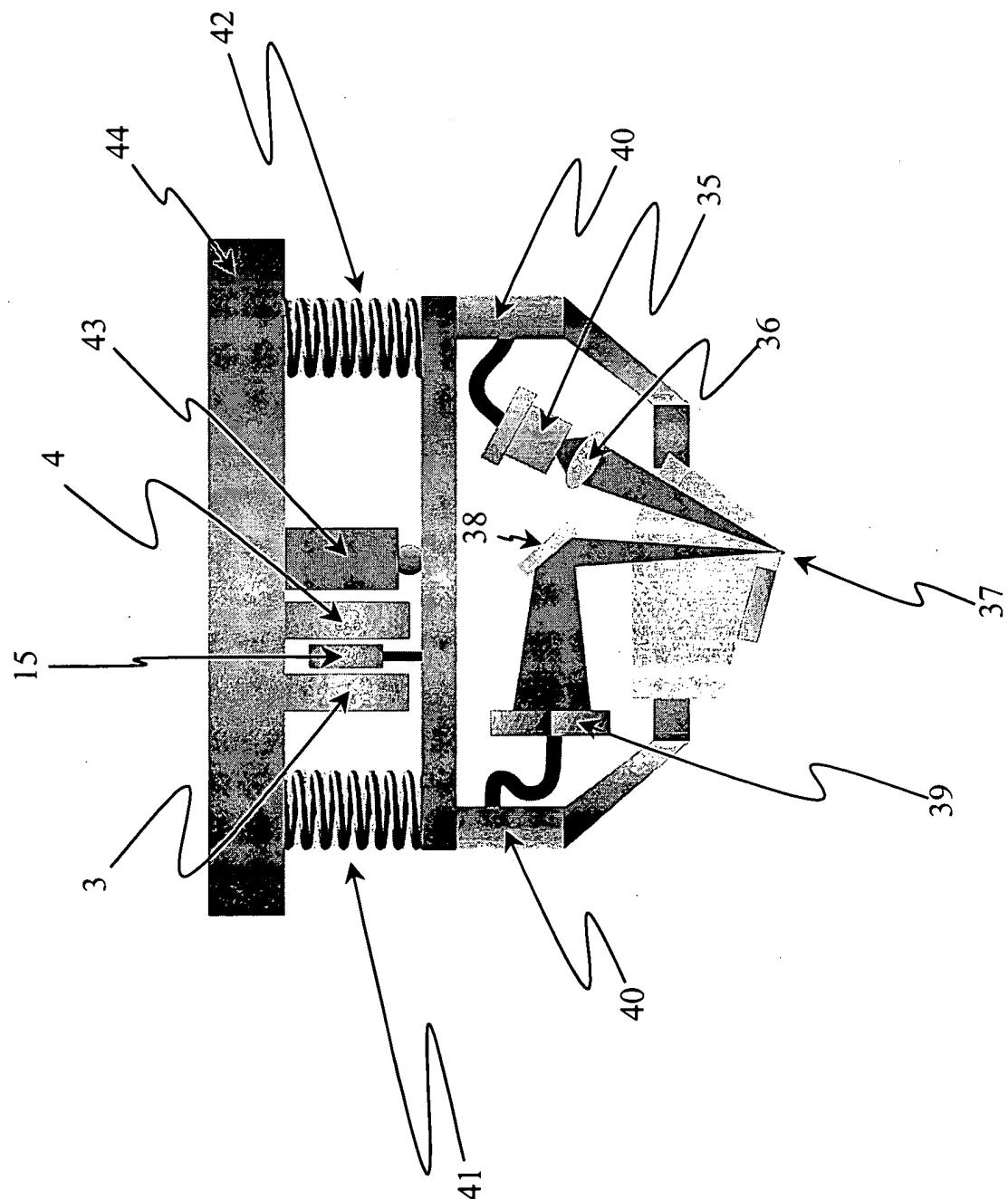


FIG. 13

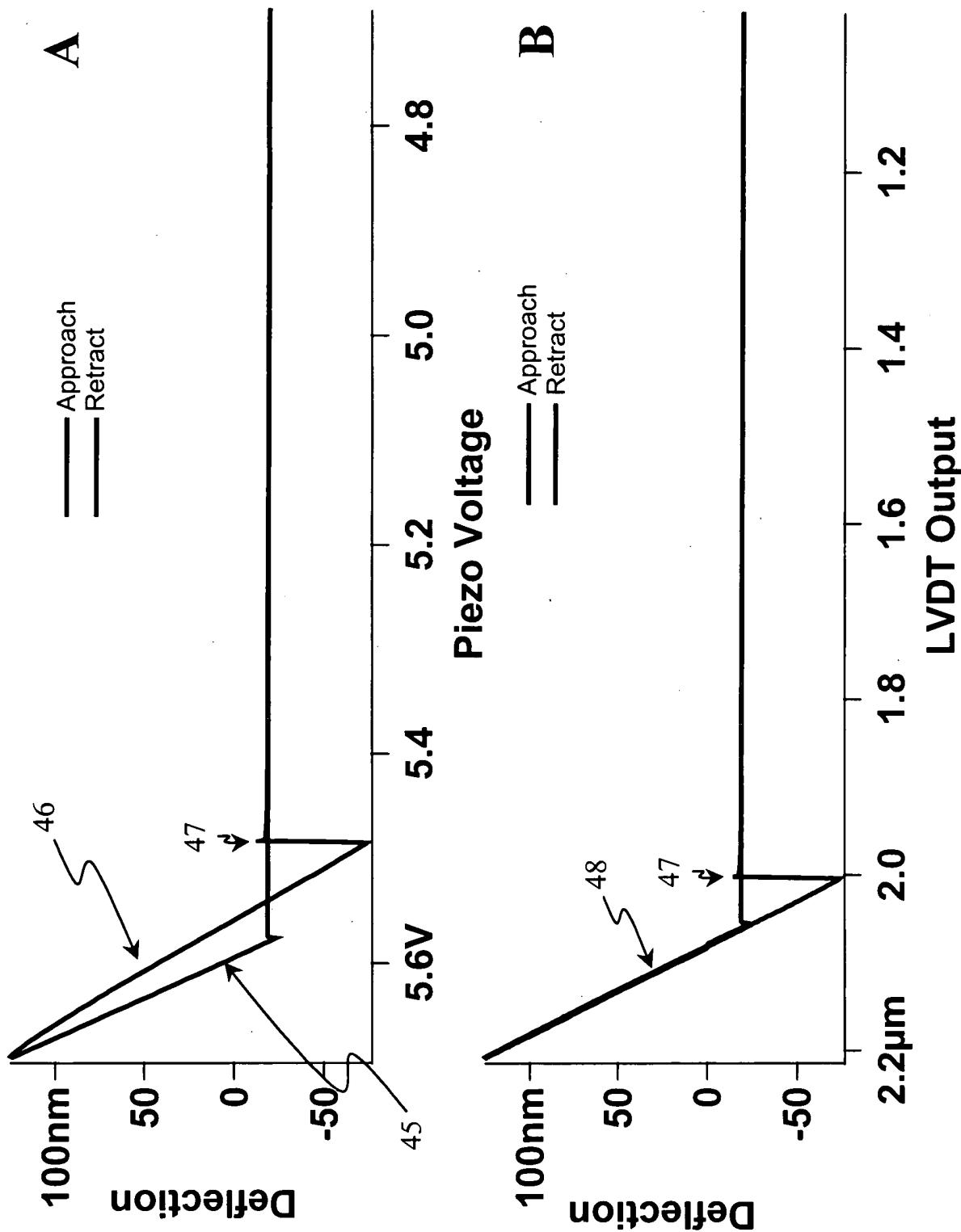


FIG.14

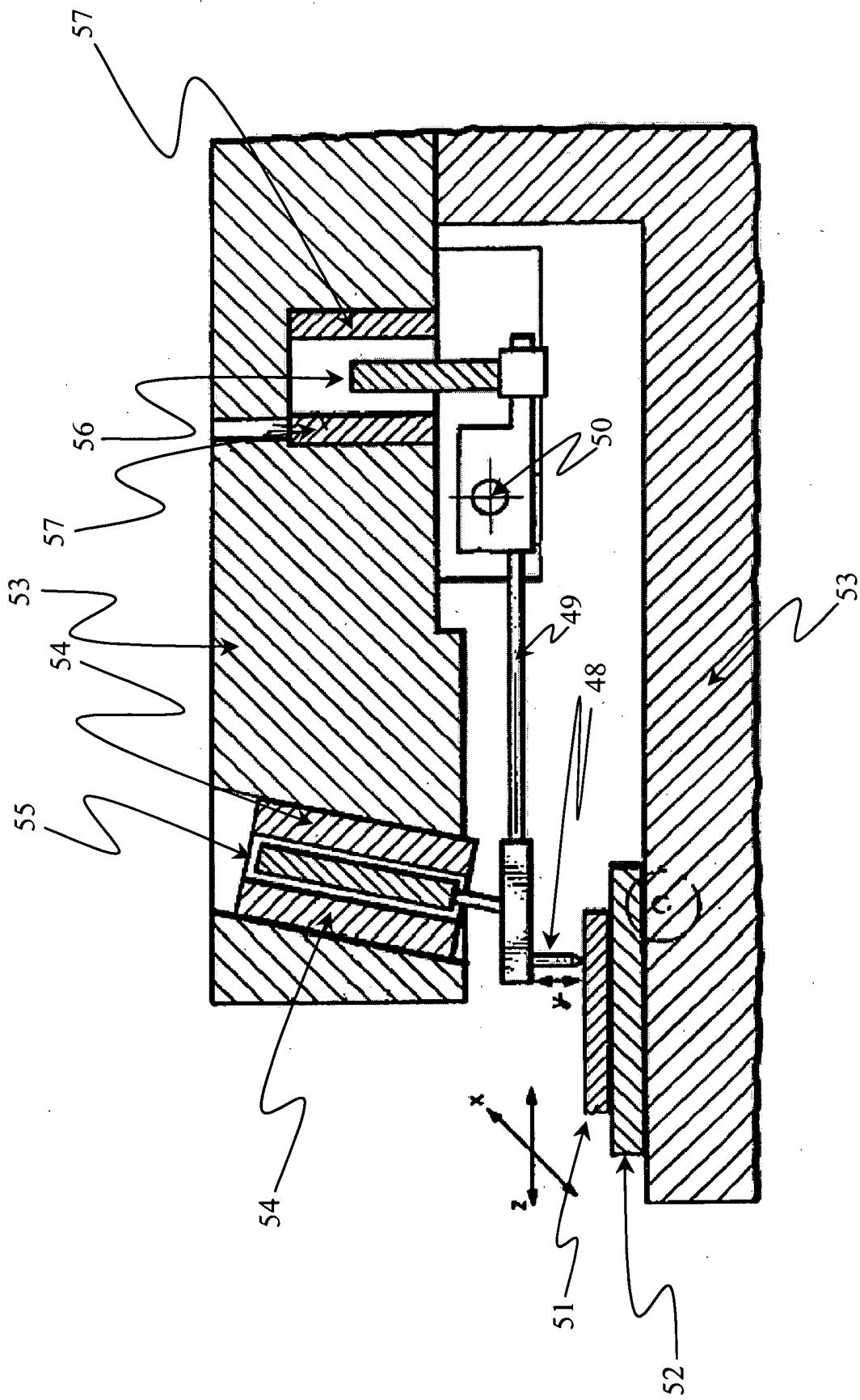


FIG. 15

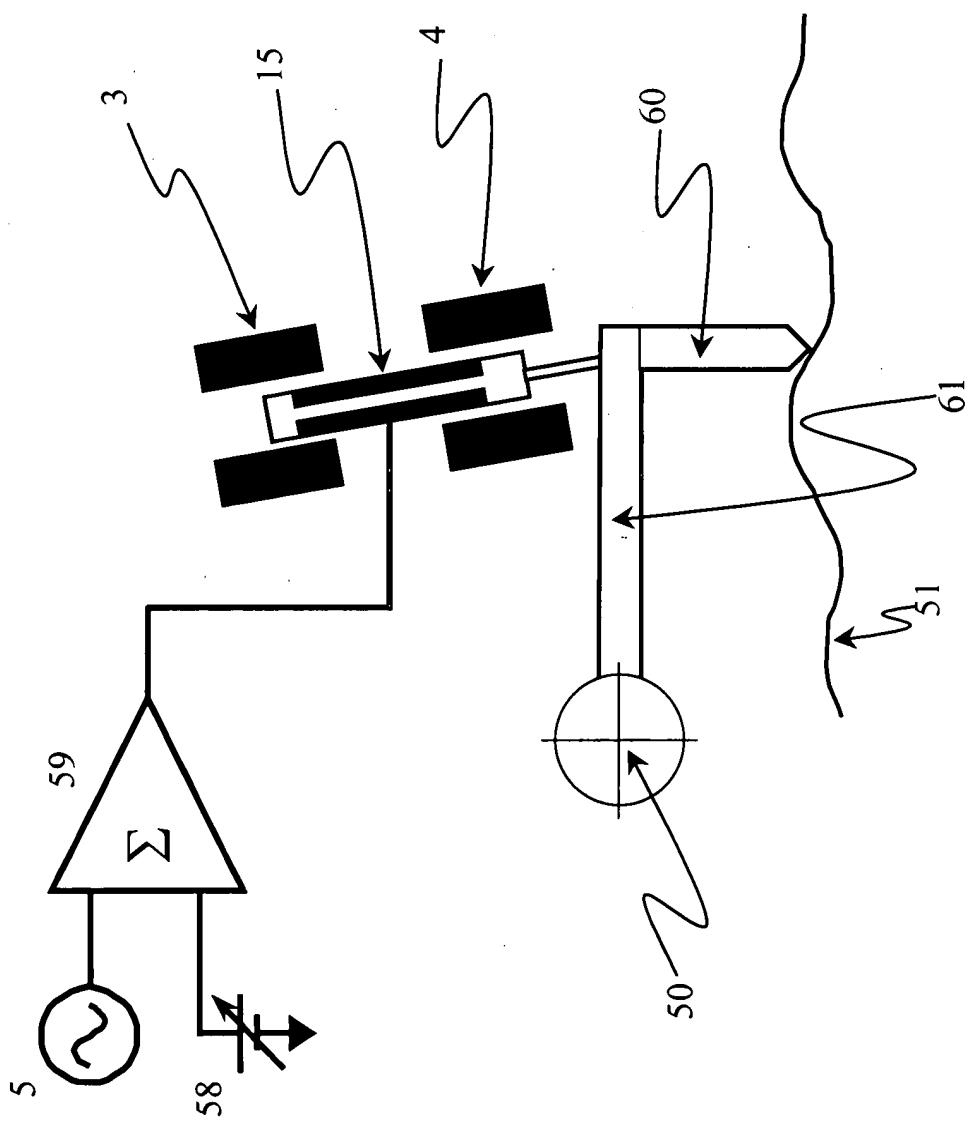


FIG. 16

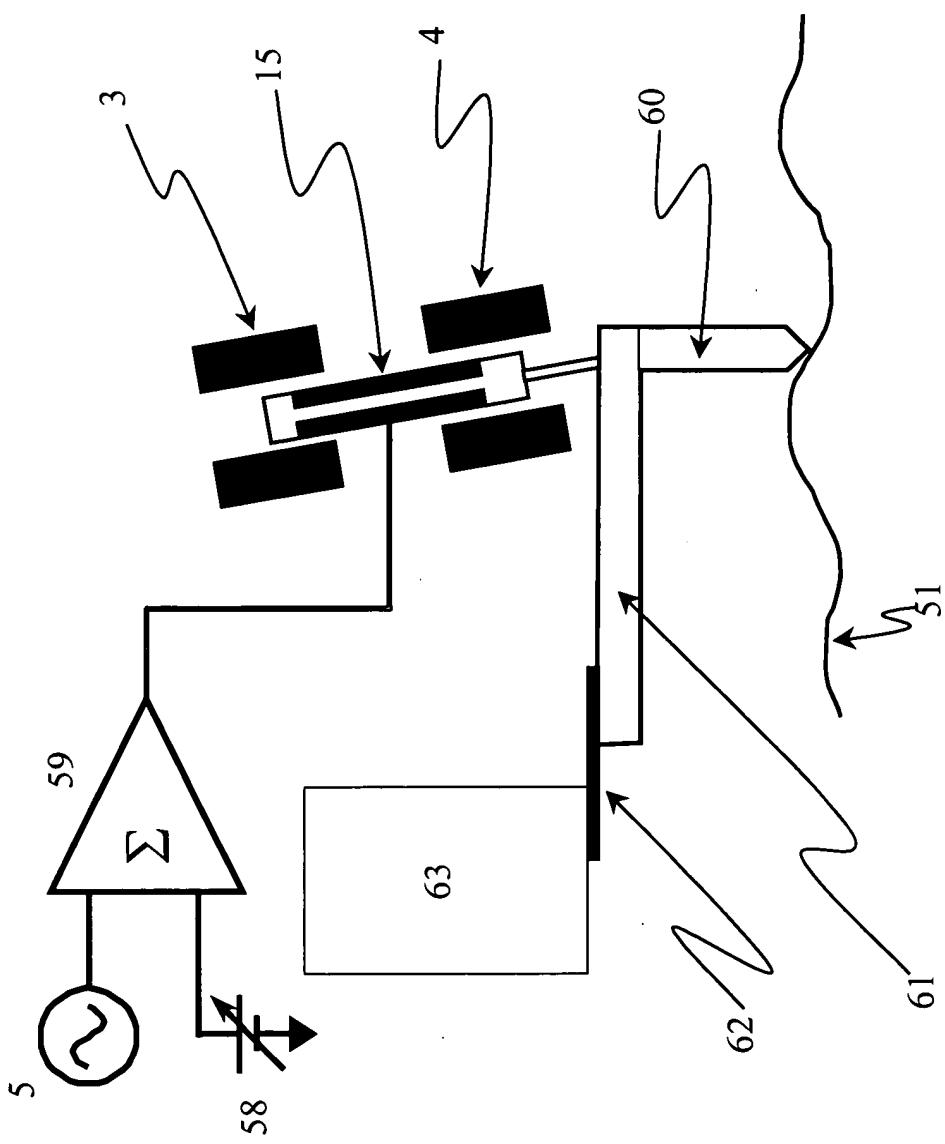


FIG. 17

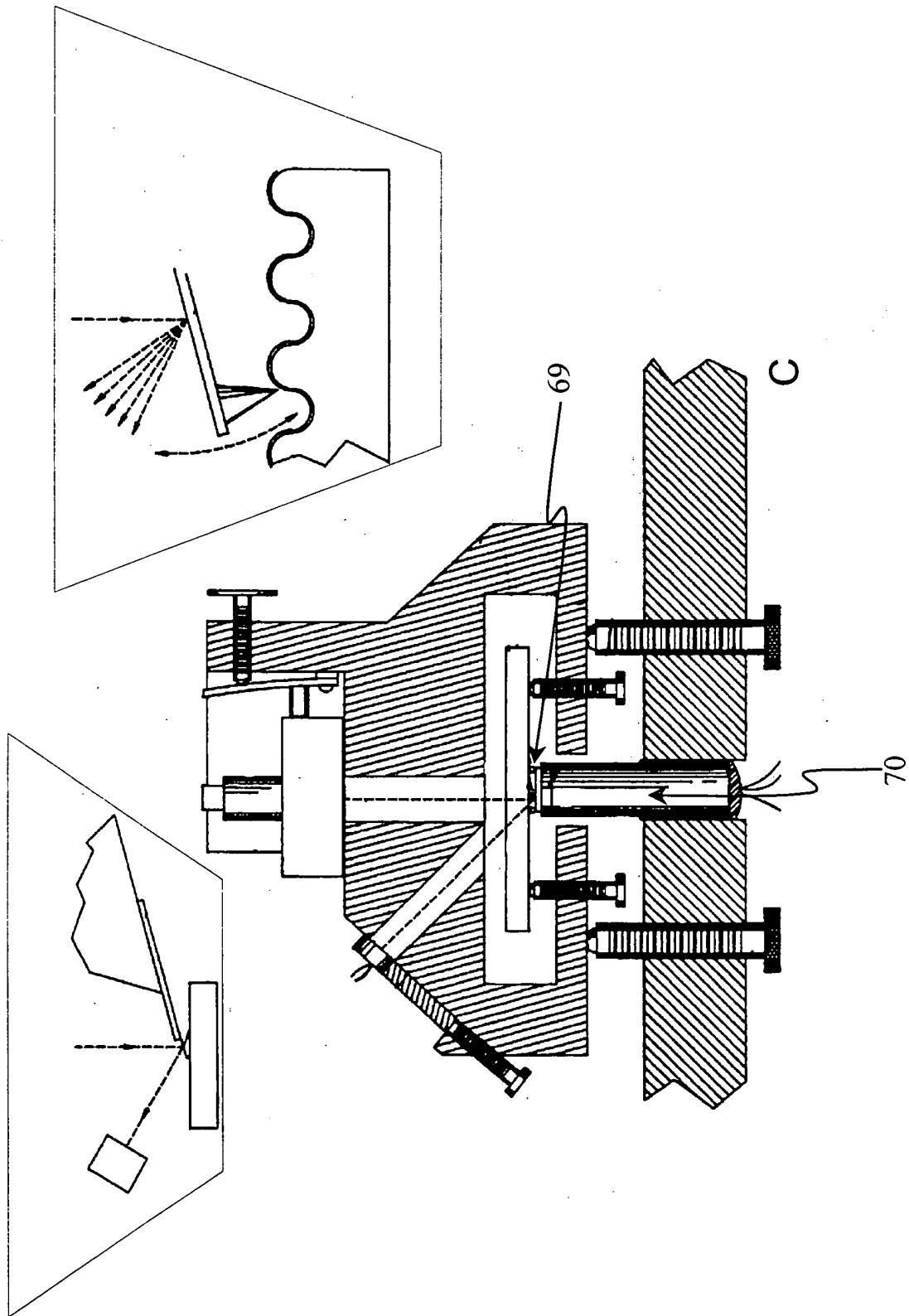


FIG. 18

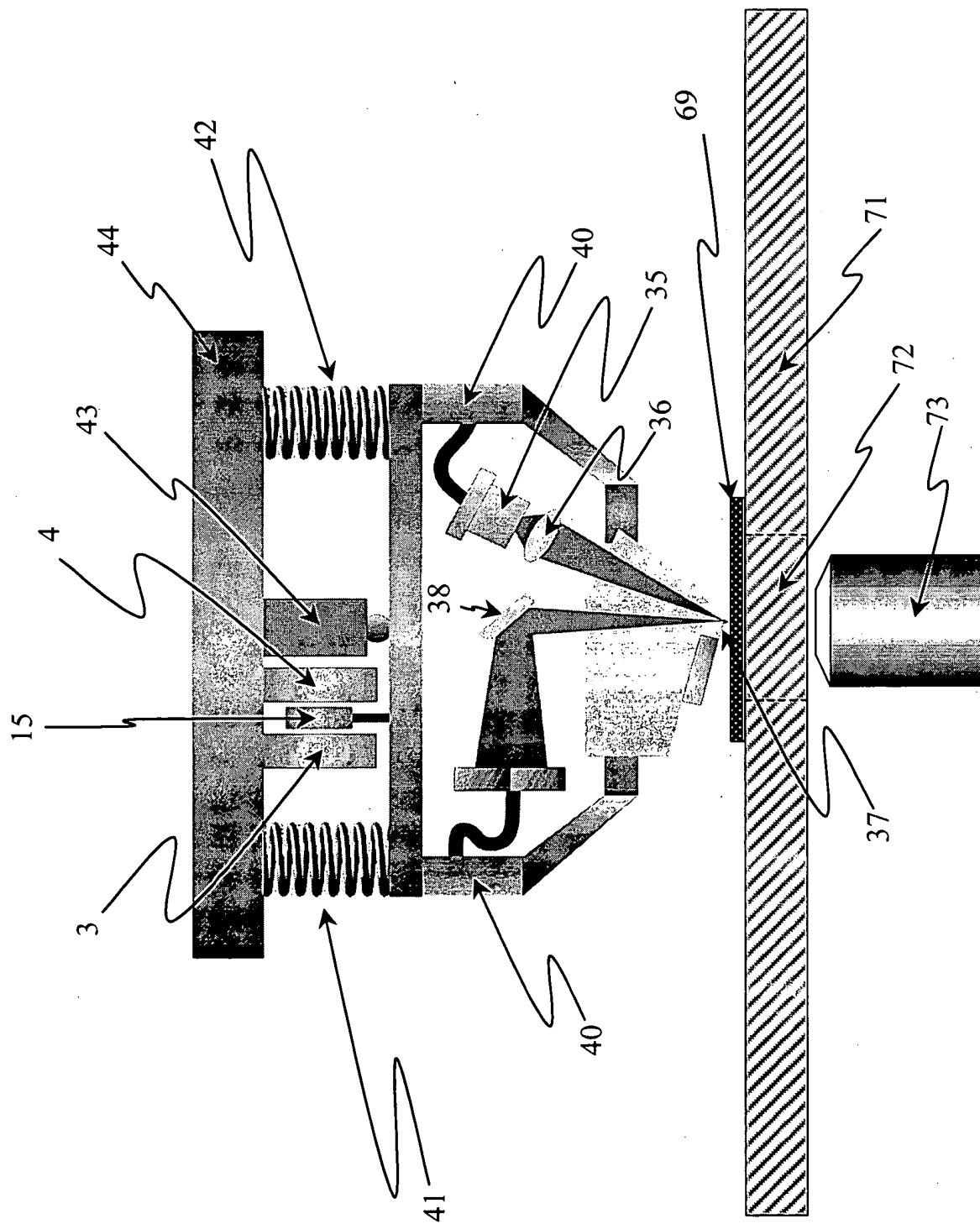


FIG. 19

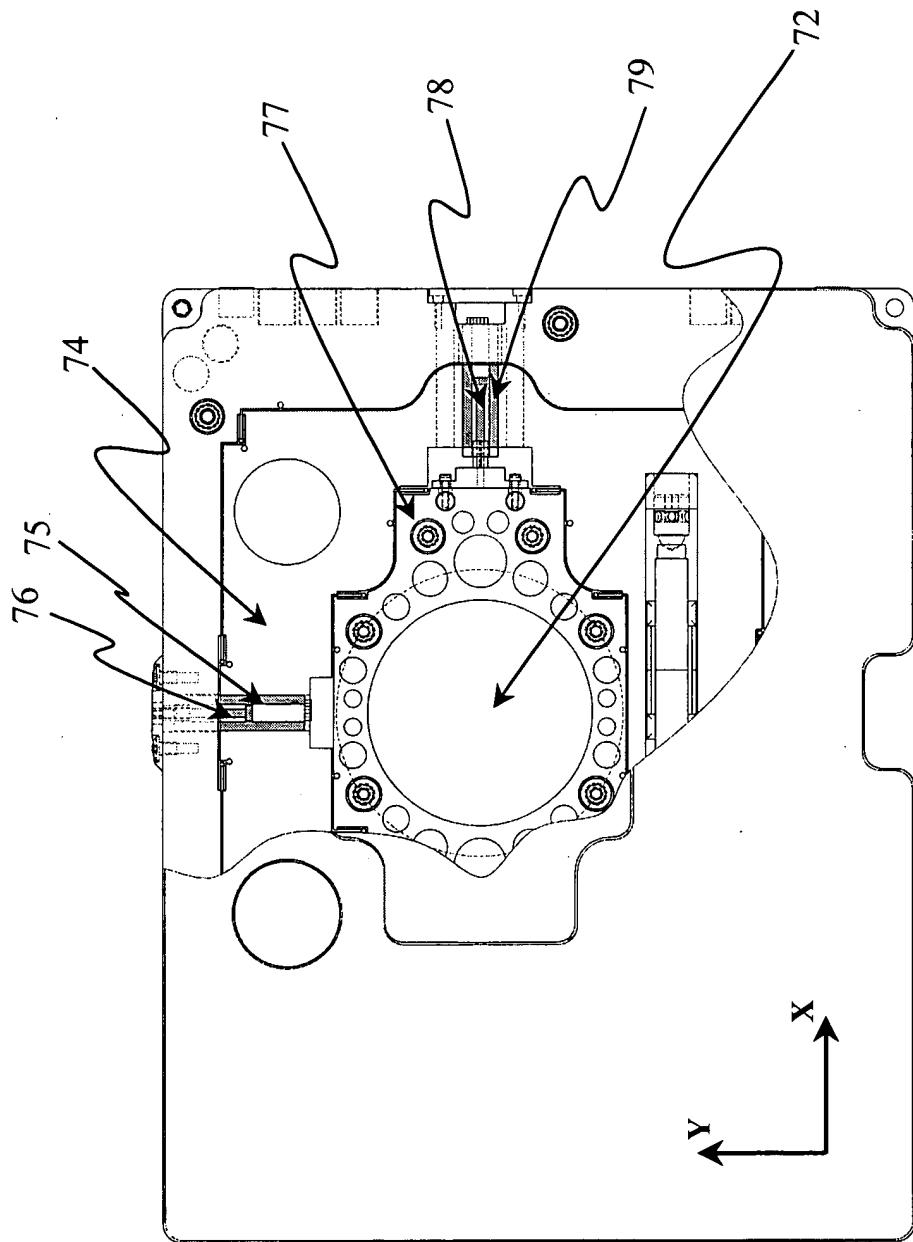


FIG. 20

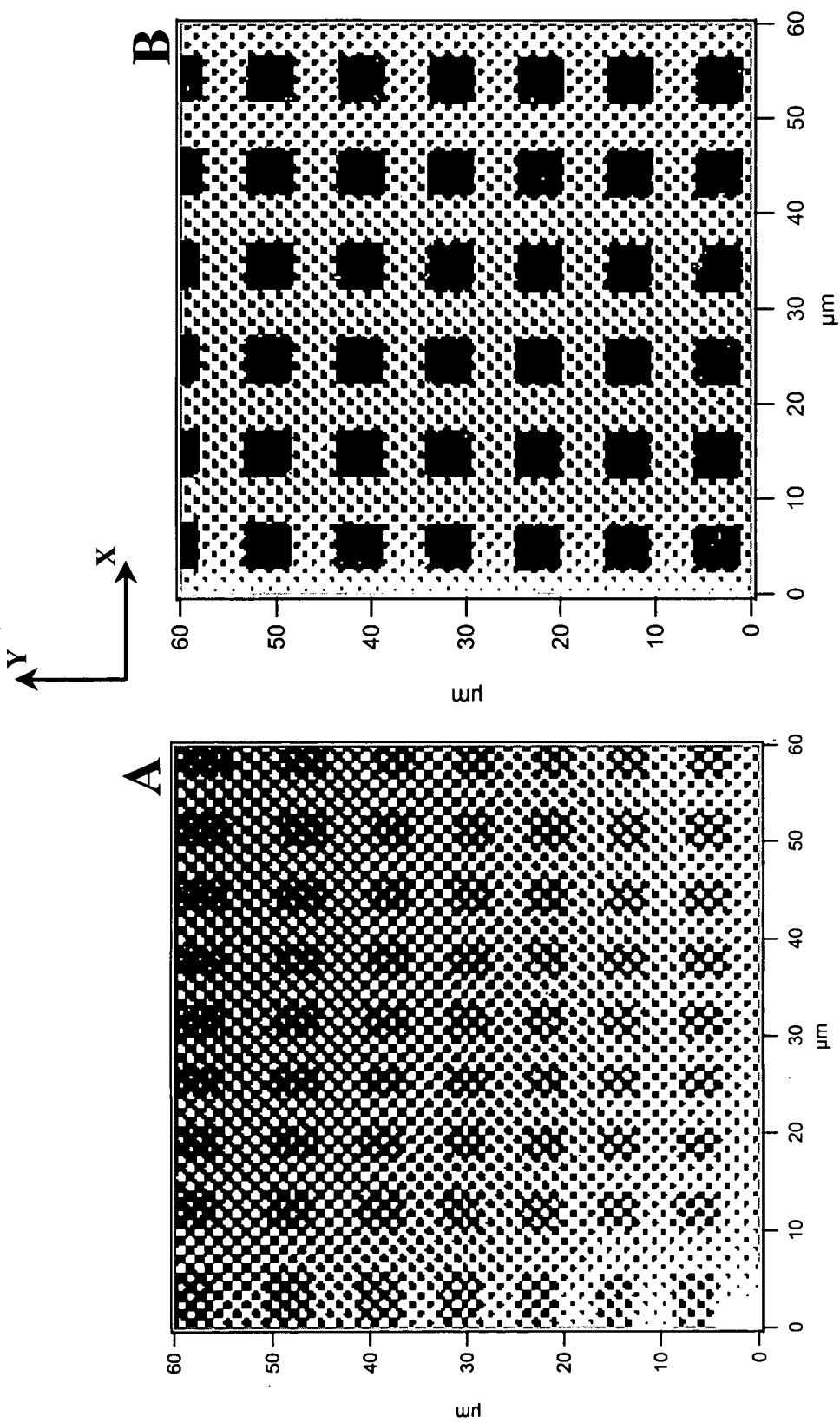


FIG. 21